

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
25 November 2004 (25.11.2004)

PCT

(10) International Publication Number  
**WO 2004/100767 A2**

- (51) International Patent Classification<sup>7</sup>: **A61B**
- (21) International Application Number:  
PCT/US2004/014141
- (22) International Filing Date: 7 May 2004 (07.05.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/469,229 9 May 2003 (09.05.2003) US
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- (81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.
- (84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:**  
— of inventorship (Rule 4.17(iv)) for US only
- Published:**  
— without international search report and to be republished  
upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: FIDUCIAL MARKER HOLDER SYSTEM FOR SURGERY

(57) Abstract: A fiducial marker holder apparatus (20, 120, 220) includes a maxillary holding device (50) and an open-ended frame (30, 130, 230). The maxillary holding device (50) is configured to be temporarily secured to only a maxillary-region of a patient. The open-ended frame (30, 130, 230) has first and second arms (32, 132, 232, 33, 133, 233) and is configured to be removably attached to the maxillary holding device (50). The first arm (32, 132, 232) has at least one marker attachment point (48a-48h, 148a-148n, 248a-2481) that receives fiducial markers (48) and the second arm (33, 133, 233) has a plurality of marker attachment points (48a-48h, 148a-148n, 248a-2481) that receive fiducial markers (48). At least two of the marker attachment points (48a-48h, 148a-148n, 248a-2481) of the second arm (33, 133, 233) are configured to receive fiducial markers (48) in different orientations with respect to the open-ended frame (30, 130, 230) and each other (48a-48h, 148a-148n, 248a-2481).

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